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**REMARKS:****Summary of Remarks**

Applicant has canceled Claims 1-6 and replaced them with Claims 7-9 in order to incorporate suggestions by Office Action and, in order to clarify and correct objections to claims. Claims 7-9 are apparatus claims while Claim 10 is a method claim.

1. Office Action objected to Claims 4 and 6 because there were periods used in the middle of the claim.

**Applicant has corrected this error.**

2. Office Action objected to Claim 4 because the claim fails to specify how the green speed setting means is used to estimate the speed. Additional details are needed so that one can determine exactly how speed is estimated based on the green speed setting.

**The green speed setting means is a user interface selector that allows the golfer to indicate the "speed" of the green that is to be simulated for his/her putt. In golf terminology, although it contains the word "speed", "green speed" is actually an indication of the frictional characteristics of a green. Stimp units indicate green speed and are related to an equivalent coefficient of friction by  $u = .611/\text{Stimp}$  (as described in the Specification). Therefore, "speed" (of the golf ball) is not estimated by the green speed setting means. The green speed setting means is converted to an equivalent coefficient of friction and is used in the rolling golf ball distance estimate. However, in order to further clarify the relation of the green speed setting means to the estimate of rolling golf ball distance, a**

**reference in Claim 7 has been added relating coefficient of friction to the green speed setting means.**

3. Office Action objected to Claims 4 and 5 because the claim fails to specify how the estimated speed and putting distance are determined.

**Applicant has added a detailed explanation in Claims 7 and 8 of how the speed of the rolling golf ball is estimated from the doppler speed measurement period values stored in the circular memory buffer. A detailed explanation has been added in the claims of how the estimated speed and green speed setting are used to estimate the golf ball rolling distance.**

4. Office Action objected to Claim 6 because of the terminology "golfer of minimal skill." Examiner suggests that this terminology be removed.

**Applicant has deleted the term, "golfer of minimal skill".**

5. Office Action objected to Claim 6 because the claim fails to specify how the estimated speed and putting distance are determined. Terminology such as "processing the set of... and arriving at an estimated golf ball rolling distance," will not suffice... Applicant is encouraged to be as specific as possible regarding claimed limitations.

**Applicant has added a detailed explanation in Claim 10 of how the speed of the rolling golf ball is estimated from the doppler speed measurement period values stored in the circular memory buffer. A detailed explanation has been added in the claim of how the estimated speed and green speed setting are used to estimate the golf ball rolling distance.**

6. Office Action objected to the relative terms: "short", "heavy", and "size n"... Applicant is advised to remove relative terms lacking comparative bases.

**Applicant has revised Claims 4-6 as follows:**

- **"short", "heavy" and "size n" have been removed from all claims.**
- **"from a short distance away" in Canceled Claims 4 and 5 has been replaced with "from two feet away" in New Claims 7 and 8.**
- **"positioning the housing a sort distance..." has been changed in Canceled Claim 6 to "positioning the housing two feet away..." in New Claim 10.**

7. Applicants are reminded that functional recitation(s) using the word "for" in claims 4-5 have been considered but given less patentable weight because they fail to add any steps and are thereby regarded as intended use language... the Examiner respectfully recommends Applicant remove "circuitry for.." and "for the storage...".

**Applicant has reworded all claim language where "for ..." is regarded as intended use language by replacing such phrases with additional steps describing the function in more detailed terms.**

**For example:**

**"circuitry for the amplification of said Doppler audio output signal and conversion of said Doppler audio output signal to a Doppler microwave speed measurement signal;"**

**Has been changed to:**

**"amplification circuitry to amplify said doppler audio output signal into an amplified doppler audio output signal and conversion circuitry that converts said amplified doppler audio output signal to a doppler microwave speed measurement digital signal;"**

**8. Office Action made a new ground of rejection in view of 35 U.S.C. 112.**

- Claim listing shall be presented in ascending numerical order
- The claim listing shall commence on a separate sheet of the amendment document and the sheets that contain the text of any part of the claims shall not contain any other part of the amendment.
- Consecutive claims having the same status of "canceled" may be aggregated into one statement
- The claim listing shall commence on a separate sheet of the amendment document and the sheets that contain the text of any part of the claims shall not contain any other part of the amendment.
- When claim text in clean version is required.
  - o Any claim added by amendment must be indicated with the status of "new" and presented in clean version, i.e., without any underlining.

**Applicant has chosen to cancel all previous claims 4-6 and substitute them with new claims 7-10 in clean version.**

**Applicant has placed the claim listing on a separate sheet.**

**Applicant has indicated that claims 1-6 have been canceled and claims 7-10 are new in the claim listing.**

**Applicant has placed new claims 7-10 on separate sheets from the claim listing and remarks and has indicated after each numeral the status indicator of (New) .**

**CONCLUSION**

Applicant submits that this application is now in condition for allowance, which action Applicant respectfully solicits. Applicant would like to thank the Examiner for the constructive suggestions expressed in the Office Action.

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**Conditional Request For Constructive Assistance**

Applicant has amended the claims of this application so that they are proper, definite, and define novel structure. If, for any reason this application is not believed to be in full condition for allowance, applicant respectfully requests the constructive assistance and suggestions of the Examiner pursuant to M.P.E.P. 2173.02 and 707.07(j) in order that the undersigned can place this application in allowable condition as soon as possible and without the need for further proceedings.

Very respectfully,

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Date: \_\_\_\_\_

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William Dean McConnell